

# AJA Hi5-12G 12G-SDI to HDMI 2.0 Converter

The Hi5-12G converts 12G-SDI to HDMI 2.0, with pristine image fidelity and HFR support up to 60p for 4K/UltraHD, with single cable simplicity. Hi5-12G provides an easy to deploy monitoring connection from professional 4K 12G-SDI devices to new displays with HDMI 2.0 inputs, for cost effective monitoring in professional workflows. The Hi5-12G can also generate HDR metadata in accordance with HDMI v2.0 and CTA-861-G.

It features a 12G-SDI single link input with a reclocked SDI loop out for simpler SDI confidence monitoring or pass on for SDI pipelines.

Fiber SFP equipped Hi5-12G models are available (please see separate listings below) including the Hi5-12G-R receiver, which extends HDMI 4K signals over long distances from either an SDI or a Fiber connected source, and the Hi5-12G-TR transceiver, which delivers a 4K/UltraHD SDI or Fiber source signal to an HDMI destination with pass on of the source through SDI or Fiber to a secondary destination.

## HDR

HDR, or High Dynamic Range, provides the ability to display a wider and richer range of colors, much brighter whites, and much deeper, darker blacks than standard signals allow. This gives your imagery a more 'dynamic' look and allows for natural true to life colors to be communicated to your audience.

Hi5-12G provides this support for your 4K/UltraHD/HD HDR pipelines to HDMI compatible displays by generating HDR metadata in accordance with HDMI v2.0b/CTA-861-G. Hi5-12G also provides support for Hybrid Log Gamma (HLG) HDR displays over HDMI.

## 4K and UltraHD

Typical 4K signals use a resolution of 4096 x 2160 pixels while UltraHD signals measure 3840 x 2160. This difference can prevent some monitors from being used either in full 4K workflows or in UltraHD workflows. Hi5-12G can compensate for these resolution differences, allowing UltraHD monitors to be used in 4K productions and vice versa.

Hi5-12G also supports High Frame Rate (HFR) inputs. 4K/UltraHD signals at 50 or 60 fps can be fed into Hi5-12G and output at up to 60p for viewing with appropriate HDMI 2.0 capable displays.

## 12G-SDI Support

The 12G-SDI input on Hi5-12G allows extremely high quality signal representation through to the HDMI output for use with large raster and deep color workflows where image quality is critical.

## Audio Integration

Up to 16-Channels of embedded SDI audio are supported on input and can be passed to 8-Channel of embedded HDMI audio on the output with the ability to delay the audio from 0 to 7 frames for proper synchronization with the output video. Two channels of analog audio output allow direct external monitoring without the need to disembed the audio separately.

## DSLR support

Hi5-12G accepts progressive standard definition signals at 525p and 625p for compatibility with DSLR cameras, allowing the signal from those cameras to be easily incorporated into SDI workflows.

## PfF to Progressive conversion

HDMI monitors do not natively support PfF signals. However, many professional productions still work with PfF formats. Hi5-12G converts incoming 1080PfF signals to 1080p. This progressive signal is compatible with HDMI monitors.

## Compact and Portable

AJA Mini-Converters are small enough to fit behind a monitor, in the back of a rack or directly on a camera rig. A locking power connector can't accidentally pull loose and an optional P-TAP power cable allows for battery power in remote locations.

## AJA Quality - Guaranteed

All AJA Mini-Converters are covered by a five year warranty and AJA's advanced replacement policy. If a replacement is necessary, AJA will ship a new unit immediately without the need to send the original unit back first, ensuring you are up and running again as quickly as possible.

## Features

- Convert 12G-SDI to HDMI 2.0b at up to 4K 60p
- Support for 4:2:2/4:4:4/4:2:0 HDMI 2.0 output
- HDR support for HDR10 and HLG
- Embedded audio support
- 12G-SDI loop out
- Fiber SFP models available
- Configure via USB port and supplied Mini-Config software
- Uses 5-20 VDC power (DWP-U-R1 universal power supply included)

- Five year warranty